INSTRUCTIONS

-J05931 REV. 2014-10-07

BOOM! AUDIO STAGE II FRONT FAIRING SPEAKER KIT (FLHT/FLHX)

GENERAL

Dealer installation is recommended. Radio EQ update using the Digital Technician® II diagnostic tool is:

- Recommended **before** speaker INSTALLATION
- Required **before** audio system OPERATION.
- Only available through authorized Harley-Davidson dealers.

Kit Number

76000524

Models

For model fitment information, see the P&A retail catalog or the Parts and Accessories section of www.harley-davidson.com (English only).

Installation Requirements

NOTE

DO NOT mix Stage I and Stage II speakers on the same vehicle.

NOTICE

Radio EQ MUST be updated by a Harley-Davidson dealer BEFORE operating the audio system. Operating the audio system prior to radio EQ update will IMMEDIATELY damage the speakers. (00645d)

NOTES

- *These speakers **MUST** be used with an amplifier. **Prior installation** of a Fairing Amplifier Kit (Part No. 76000278) is required. The amplifier mounts **inside the upper fairing**.*
- *The speakers in this kit have an impedance of 2 Ohms. They are for use ONLY on **2014 and later** Harley-Davidson audio systems. See the P&A retail catalog or the Parts and Accessories section of www.harley-davidson.com (English only).*
- *Using these speakers on **2006-2013** Harley-Davidson audio systems **WILL permanently damage these speakers.***
- *Using these speakers on **2005 or earlier** Harley-Davidson audio systems **WILL permanently damage those systems.***

⚠WARNING

The rider's safety depends upon the correct installation of this kit. Use the appropriate service manual procedures. If the procedure is not within your capabilities or you do not have the correct tools, have a Harley-Davidson dealer perform the installation. Improper installation of this kit could result in death or serious injury. (00333a)

NOTE

This instruction sheet refers to service manual information. A service manual for this year/model motorcycle is required for this installation. One is available from a Harley-Davidson dealer.

Kit Contents

See Figure 2 and Table 1.

PREPARATION

⚠WARNING

To prevent accidental vehicle start-up, which could cause death or serious injury, remove main fuse before proceeding. (00251b)

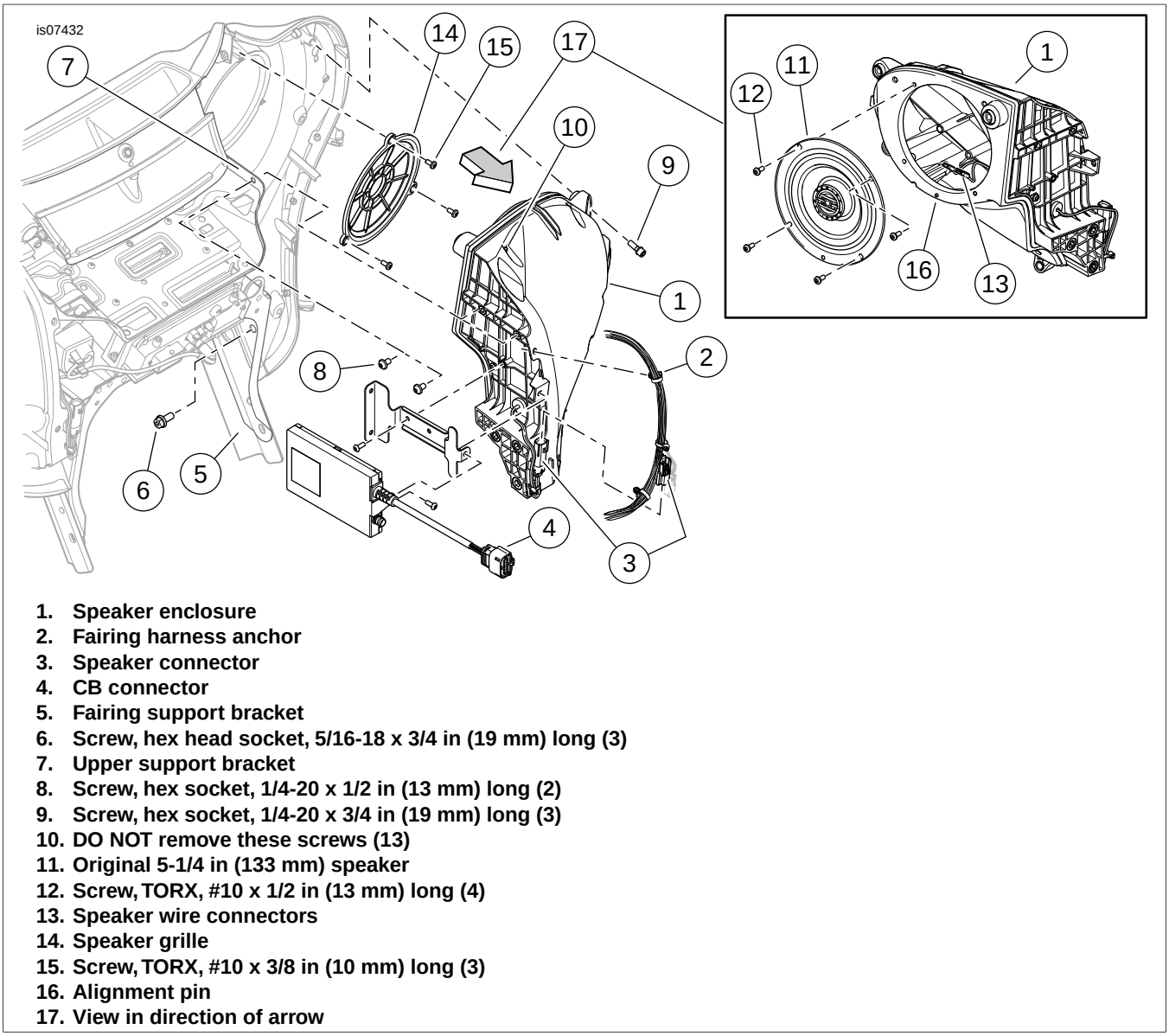
NOTE

- ***WITH security siren:** With security fob present, turn ignition switch ON. See the service manual. After system is disarmed, turn ignition switch OFF. **IMMEDIATELY** remove the main fuse.*
- ***WITHOUT security siren:** See the service manual. Remove main fuse.*

REMOVAL

1. Remove outer fairing. Remove windshield. See the service manual.
2. See Figure 1. Remove the harness anchor (2) from each speaker enclosure (1).
3. **Right (brake lever) side only:** Unplug the power port connector [C132B] (not shown).

   Left (clutch lever) side only, CB-equipped models: Unplug the CB connector [184] (4) and CB antenna. See the service manual. DO NOT remove the module.
4. Remove the three screws (6) securing the lower portion of the enclosure to the fairing support bracket (5).
5. Remove two screws (8) securing the upper portion of the enclosure to the upper support bracket (7).



1. **Speaker enclosure**
2. **Fairing harness anchor**
3. **Speaker connector**
4. **CB connector**
5. **Fairing support bracket**
6. **Screw, hex head socket, 5/16-18 x 3/4 in (19 mm) long (3)**
7. **Upper support bracket**
8. **Screw, hex socket, 1/4-20 x 1/2 in (13 mm) long (2)**
9. **Screw, hex socket, 1/4-20 x 3/4 in (19 mm) long (3)**
10. **DO NOT remove these screws (13)**
11. **Original 5-1/4 in (133 mm) speaker**
12. **Screw, TORX, #10 x 1/2 in (13 mm) long (4)**
13. **Speaker wire connectors**
14. **Speaker grille**
15. **Screw, TORX, #10 x 3/8 in (10 mm) long (3)**
16. **Alignment pin**
17. **View in direction of arrow**

Figure 1. Speaker Enclosure Removal (Left Side Shown)

NOTE

Do not remove any of the screws (10) securing the speaker enclosure halves together.

6. Remove three screws (9) securing the speaker enclosure to the inner fairing. Remove the speaker enclosure from the vehicle. Save the screws.
7. Remove four screws (12) to free the speaker (11) from the enclosure. Save the screws.
8. Disconnect wires (13). Remove the speaker from the enclosure. Discard the speaker.
9. Remove the three screws (15) securing the speaker grille (14) to the inner fairing. Remove the speaker grille from the fairing. Save the screws. Discard the grille.
10. Repeat steps 3-9 to remove the remaining speaker enclosure, speaker and grille.

NOTE

Never operate vehicle with the speaker enclosures removed. These components provide important structural support to the fairing. Operating without these components can result in damage to fairing assembly.

INSTALLATION

1. Install Fairing Amplifier Kit (Part No. 76000278) to the inner fairing per the instructions in **that** kit.
2. See Figure 2. On one side, attach the speaker jumper wire connectors (B) inside the speaker enclosure (A) to the spade terminals on the back of the **new** woofer (1). Different size spade contacts prevent improper assembly.

NOTE

Position the woofer over the opening in the speaker enclosure. Note the letters "A" and "B" stamped on the outer rim (C) of the speaker.

- *For the left speaker, rotate so the letter "B" is at the bottom.*
- *For the right speaker, rotate so the letter "A" is at the bottom.*

3. Fasten the speaker to the enclosure with the four screws (D) removed earlier. Tighten the screws to 14-20 **in-lbs** (1.6-2.3 Nm).

NOTES

- *The tweeter/midrange fairing speaker assemblies are side-specific. The right speaker trim ring has the text "BOOM! AUDIO STAGE II" to the right of the tweeter housing. The left speaker trim ring has no text.*
- *Rotate the speaker so the tweeter (E) is at the top, inboard of the upper mounting hole.*

4. From the inside, insert the correct tweeter/midrange speaker assembly (2 or 3) through the speaker opening in the inner fairing. Secure with three TORX screws (F) removed earlier. Tighten to 9-13 **in-lbs** (1.0-1.4 Nm).
5. Repeat steps 2-4 for the opposite speakers.
6. Install one speaker enclosure to the inner fairing. Secure with three hex socket screws (see Figure 1, Item 9) removed earlier. Tighten to 48-60 **in-lbs** (5.4-6.8 Nm).
7. Secure the lower portion of the enclosure to the fairing support bracket (5) with three hex head socket screws (6) removed earlier. Tighten to 20-24 ft-lbs (27.1-32.5 Nm).
8. Secure the enclosure to the upper support bracket with two hex socket screws (8). Tighten to 48-60 **in-lbs** (5.4-6.8 Nm).
9. Repeat steps 6-8 with the remaining enclosure.
10. Position the Y-harness (see Figure 2, Item 5) inside the fairing.

- Connect the four-way connector [313] of the Y-harness into the amplifier harness rear speaker output connector [313].
- The Y-harness legs are labeled "RH" or "LH" (right side or left side as viewed from the rider position). Or match the wire colors of the Y-harness to the speaker wire colors. Route each leg of the harness to the correct speaker.
- Plug in the two-way connectors at each speaker.

11. Mate the speaker and power port connectors. Secure the harness anchors to the speaker enclosures.
12. **Left side only, CB-equipped models:** Plug in the CB connector [184] and CB antenna. See the service manual.

⚠WARNING

Be sure that steering is smooth and free without interference. Interference with steering could result in loss of vehicle control and death or serious injury. (00371a)

- **Make sure that wires, harnesses or lines do not pull tight when handlebars are turned fully to left or right fork stops.**

13. Verify that steering is smooth and clear from stop to stop.

COMPLETION

NOTE

*To prevent possible damage to the audio system, verify that the ignition and audio system are OFF **before** installing the main fuse.*

NOTICE

Radio EQ MUST be updated by a Harley-Davidson dealer BEFORE operating the audio system. Operating the audio system prior to radio EQ update will IMMEDIATELY damage the speakers. (00645d)

1. See the service manual. Install main fuse.
2. Have a Harley-Davidson dealer update the radio EQ using Digital Technician II.
3. Turn the ignition ON, but do not start the motorcycle.
4. Refer to the BOOM! BOX INFOTAINMENT SYSTEM section of the owner's manual. Turn the radio ON. Make sure that all speakers are working and front/rear fader function is operating correctly. If not, check speaker wiring.

   Understand that buzzing, squeaks and rattles could be heard until outer fairing is installed.
5. See the service manual. Install the outer fairing and windshield.

⚠WARNING

After installing seat, pull upward on seat to be sure it is locked in position. While riding, a loose seat can shift causing loss of control, which could result in death or serious injury. (00070b)

6. See the service manual to install the seat.

IN USE

Avoid direct contact with speaker grilles by a pressure washer. Damage to speakers can result.

SERVICE PARTS

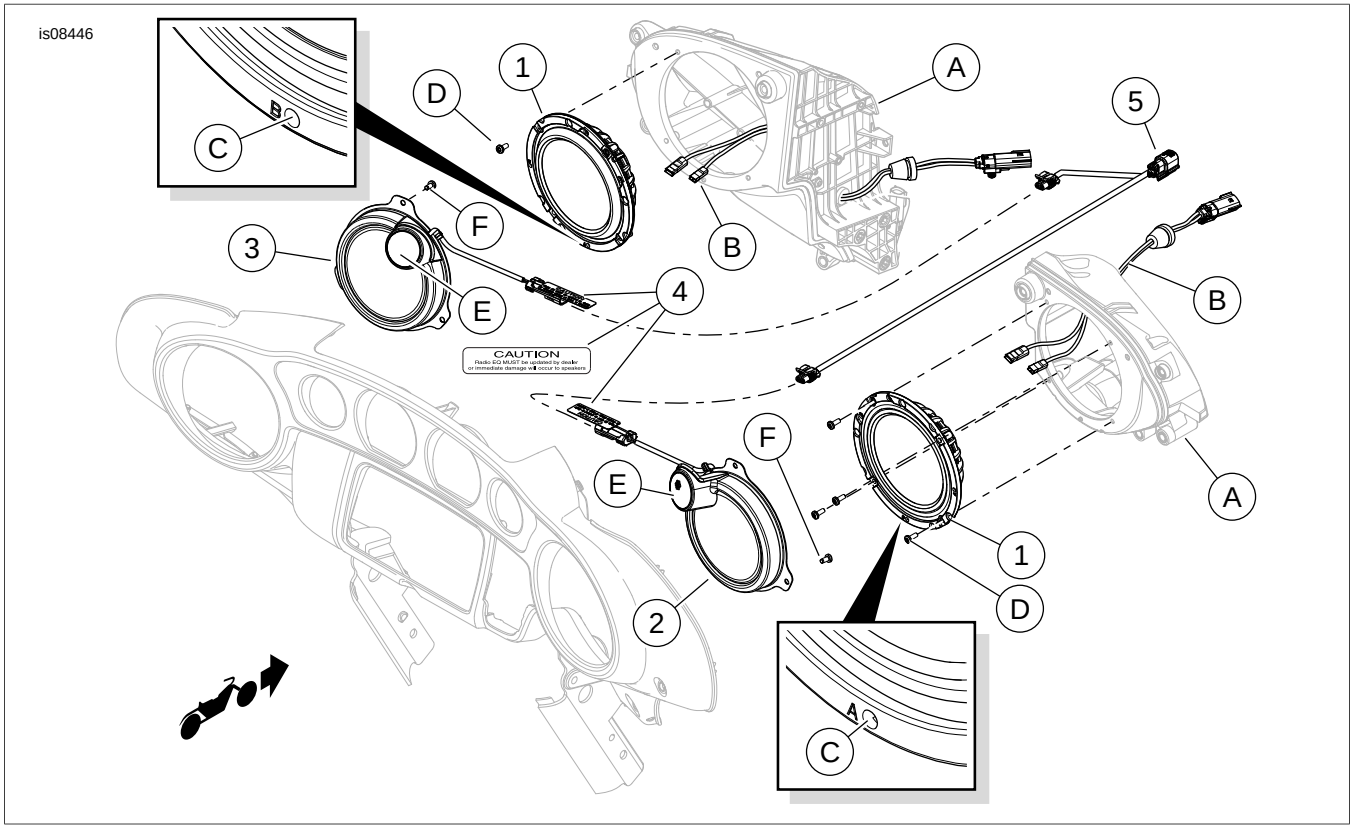


Figure 2. Service Parts, BOOM! Audio Stage II Front Fairing Speaker Kit (FLHT/FLHX Models)

Table 1. Service Parts

Item	Description (Quantity)	Part Number
1	Fairing speaker assembly, woofer (2)	76000525
2	Speaker assembly, tweeter/midrange (right) (includes Item 4)	76000535
3	Speaker assembly, tweeter/midrange (left) (includes Item 4)	76000536
4	• Label, speaker installation	Not sold separately
5	Wire harness, tweeter/midrange speaker assembly	69200925
Items mentioned in text, but not included in kit:		
A	Speaker enclosure (2)	
B	Speaker jumper wire connector (4)	
C	Reference hole at bottom of speaker frame, marked "A" (left speaker), "B" (right speaker)	
D	Original equipment (OE) screw, 0.5 in (13 mm) long (8)	
E	Tweeter bridge	
F	OE screw, 0.4 in (9.5 mm) long (6)	